Security and Redundancy

Group and User Permissions
Total flexibility to define privileges based on groups or specific users. Permissions can be global or tied to a specific display, object or input action.

Runtime Users
Dynamically create users and store credentials in SQL databases. Get users from Active-Directory or third party system for integrated security or unified login.

User Policies
Identification policies, session duration, control, automated logoff, e-sign, audit-trail and a complete set of user management features are available.

FDA and NERC Regulated Applications
FactoryStudio allows delivering applications in conformance with Title 21 CFR Part 11 and it was designed following the applicable recommendations from NERC, such as the CIP-007-1-Cyber Security-System Management.

Security at the Core Level
Security must be implemented at the core, not applied externally. FactoryStudio modules have built-in security related components designed from the core.

Hot-standby Fault-tolerant Servers
Reliable, easily configurable redundancy, for seamless failover: FactoryStudio automatically initializes and continues to synchronize the primary and secondary server. The Device communication channels are also easily setup for redundant physical networks and redundant PLC nodes.

Database Redundancy
The Alarm and Historian database can be assigned to a third-party external cluster or replicated automatically when running on the FactoryStudio servers.

Project Configuration Synchronization
Engineering tools provide features to simplify configuration and updates in redundant scenarios.

Hot-swapping
Redundant or stand-alone servers allow dynamic switching of project versions, without interrupting service for connected clients and keeping the real-time database loaded.

Redundancy at the Core Level
Real-Time tags, Devices, Alarms, Historian, Scripts, Clients, all modules were designed from the ground up to meet redundancy and hot-swapping requirements.